

# **Historic, Archive Document**

Do not assume content reflects current  
scientific knowledge, policies, or practices.



1.96  
R31Fsw  
Cop. 2

FEDERAL - STATE - PRIVATE  
COOPERATIVE SNOW SURVEYS

U. S. DEPT. OF AGRICULTURE  
NATIONAL AGRICULTURAL LIBRARY

APR -5 1967

CURRENT SERIAL RECORD

# WATER SUPPLY OUTLOOK and FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS for NEVADA

UNITED STATES DEPARTMENT of AGRICULTURE--SOIL CONSERVATION SERVICE,  
and  
NEVADA DEPARTMENT of CONSERVATION and NATURAL RESOURCES  
DIVISION of WATER RESOURCES

Data included in this report were obtained by the agencies named above in cooperation with the Federal, State and private organizations listed on the last page of this report.

AS OF  
JAN. 1, 1966

# UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

## *To Recipients of Water Supply Outlook Reports:*

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data or reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Listed below are water supply outlook reports based on Federal-State-Private Cooperative snow surveys. Those published by the Soil Conservation Service may be obtained from Soil Conservation Service, Room 507, Federal Building, 701 N. W. Glisan, Portland, Oregon 97209.

### PUBLISHED BY SOIL CONSERVATION SERVICE

<u>REPORTS</u>	<u>ISSUED</u>	<u>LOCATION</u>	<u>COOPERATING WITH</u>
RIVER BASINS			
WESTERN UNITED STATES _____	MONTHLY (FEB.-MAY) _____	PORTLAND, OREGON _____	ALL COOPERATORS
BASIC DATA SUMMARY _____	OCTOBER 1 _____	PORTLAND, OREGON _____	ALL COOPERATORS
STATES			
ALASKA _____	MONTHLY (MAR.-MAY) _____	PALMER, ALASKA _____	ALASKA S.C.D.
ARIZONA _____	SEMI-MONTHLY _____ (JAN. 15 - APR. 1)	PHOENIX, ARIZONA _____	SALT R. VALLEY WATER USERS ASSOC. ARIZ. AGR. EXP. STATION
GOLORADO AND NEW MEXICO _____	MONTHLY (FEB.-MAY) _____	FORT COLLINS, COLORADO _____	COLO. STATE UNIVERSITY COLO. STATE ENGINEER N. MEX. STATE ENGINEER
IDAHO _____	MONTHLY (JAN.-JUNE) _____	BOISE, IDAHO _____	IDAHO STATE RECLAMATION ENGINEER
MONTANA _____	MONTHLY (JAN.-JUNE) _____	BOZEMAN, MONTANA _____	MONT. AGR. EXP. STATION
NEVADA _____	MONTHLY (JAN.-MAY) _____	RENO, NEVADA _____	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES
OREGON _____	MONTHLY (JAN.-JUNE) _____	PORTLAND, OREGON _____	OREG. STATE UNIVERSITY OREGON STATE ENGINEER
UTAH _____	MONTHLY (JAN.-JUNE) _____	SALT LAKE CITY, UTAH _____	UTAH STATE ENGINEER
WASHINGTON _____	MONTHLY (FEB.-JUNE) _____	SPOKANE, WASHINGTON _____	WN. STATE DEPT. OF CONSERVATION
WYOMING _____	MONTHLY (FEB.-JUNE) _____	CASPER, WYOMING _____	WYOMING STATE ENGINEER

### PUBLISHED BY OTHER AGENCIES

<u>REPORTS</u>	<u>ISSUED</u>	<u>AGENCY</u>
BRITISH COLUMBIA _____	MONTHLY (FEB.-JUNE) _____	WATER RESOURCES SERVICE, DEPT. OF LANDS, FOREST AND WATER RESOURCES, PARLIAMENT BLDG., VICTORIA, B.C., CANADA
CALIFORNIA _____	MONTHLY (FEB.-MAY) _____	CALIF. DEPT. OF WATER RESOURCES, P.O. BOX 388, SACRAMENTO, CALIF.

**WATER SUPPLY OUTLOOK**  
and  
**FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS**  
for  
**NEVADA**

*Report prepared by*

**MANES BARTON**

*and*

**ROY E. MALSOR, JR.**

SOIL CONSERVATION SERVICE  
1479 SOUTH WELLS AVENUE  
RENO, NEVADA

**JANUARY 8, 1966**

*Issued by*

**CHARLES W. CLEARY, JR.**

STATE CONSERVATIONIST  
SOIL CONSERVATION SERVICE  
RENO, NEVADA

**ELMO J. DE RICCO**

DIRECTOR  
DEPARTMENT OF CONSERVATION AND  
NATURAL RESOURCES  
CARSON CITY, NEVADA





# INDEX TO NEVADA SNOW COURSES

( By Basins )

NUMBER NAME SEC. TWP. RGE. ELEV.

## Snake River Basin

### Snake River

15H1MA	BEAR CREEK	31	46N	58E	7800
15H2	FOX CREEK	33	46N	58E	6800
15H13	GOAT CREEK	31	46N	60E	8800
15H15A	HUMMINGBIRD SPRINGS	6	45N	60E	8945
14H1	JACKS CREEK	6	42N	62E	7000
15H20	MERRITT MOUNTAIN	10	46N	54E	7000
15H14	POLE CREEK RANGER STATION	13	46N	59E	8330
15H18a	REO POINT	15	47N	61E	7940
15H3A	76 CREEK	6	44N	58E	7100
15H19a	STAG MTN.	29	41N	58E	7800

### Owyhee River

15H4MP	BIG BEND	30	45N	56E	6700
16H6a	COLUMBIA BASIN	31	44N	53E	6650
16H8a	FAWN CREEK	2	45N	52E	7000
15H5	GOLD CREEK	31	45N	56E	6600
16H1M	JACK CREEK, LOWER	18	42N	53E	6800
16H2A	JACK CREEK, UPPER	9	42N	53E	7250
16H4	JACKS PEAK	28	42N	53E	8420
16H5	LAUREL DRAW	20	45N	53E	6700
17G4a	LOUSE CANYON (OREG.)	27	40S	44E	6440
15H9MP	TAYLOR CANYON	35	39N	53E	6200

## Interior

### Upper Humboldt River

15J17a	AMERICAN BEAUTY	32	31N	58E	7800
16H6a	COLUMBIA BASIN	31	44N	53E	6650
15J12A	CORRAL CANYON	27	28N	57E	8500
15J1MP	DORSEY BASIN	28	35N	60E	8100
15J3	ORY CREEK	5	34N	60E	6500
15H7	FRY CANYON	31	43N	54E	6700
15J9MP	GREEN MOUNTAIN	23	29N	57E	8000
15J10	HARRISON PASS #1	9	28N	57E	6600
15J11	HARRISON PASS #2	16	29N	57E	7400
15J4	LAMOILLE #1	15	32N	58E	7100
15J5	LAMOILLE #2	14	32N	58E	7300
15J6M	LAMOILLE #3	24	32N	58E	7700
15J7	LAMOILLE #4	19	32N	59E	8000
15J8P	LAMOILLE #5	31	32N	59E	8700
15J18a	POLE CANYON	31	35N	61E	7140
15J16a	ROBINSON LAKE	23	33N	59E	9200
15H5MP	ROOGE FLAT	36	43N	53E	6800
15J2	RYAN RANCH	1	34N	59E	5800
15H8	TREMEWAN RANCH	9	39N	55E	5700
15H10P	TROUT CREEK, LOWER	28	37N	61E	6900
15H11A	TROUT CREEK, UPPER	4	36N	61E	8500

### Lower Humboldt River

17K1	BIG CREEK CAMP GROUND	10	17N	43E	6600
17K2	BIG CREEK MINE	23	17N	43E	7600
17K3	BIG CREEK, UPPER	26	17N	43E	8000
17H2	BUCKSKIN, LOWER	25	45N	39E	6700
17H1	BUCKSKIN, UPPER	11	45N	39E	8200
17J2	GOLCONDA #2	22	39N	39E	6000
17H4	GRANITE PEAK	22	44N	39E	7800
17H5	LAMANCE CREEK	13	42N	38E	6000
17L1	LOWER CORRAL	12	11N	40E	7500
17H3	MARTIN CREEK	18	44N	40E	6700
16H3AP	MIDAS	18	39N	46E	7200
18H7	TOE JAM	29	40N	50E	7700
17L2	UPPER CORRAL	20	11N	41E	8500

### Eastern Nevada

14L1	BAKER #1	29	13N	69E	7950
14L2	BAKER #2	30	13N	69E	8950
14L3	BAKER #3	25	13N	68E	9250
14K2	BERRY CREEK	26	17N	65E	9100
14K1	BIRO CREEK	34	19N	65E	7500
15J13	CAVE CREEK	25	27N	57E	7500
15J14	HAGER CANYON	34	27N	57E	8000
15J15	HOLE-IN-MTN	6	35N	61E	7900
14K8	KALAMAZOO CREEK	34	20N	65E	7400
14K3	MURRAY SUMMIT	25	16N	62E	7250
15K1	ROBINSON SUMMIT	34	18N	61E	7600
14K7	SILVER CREEK #2	30	16N	69E	8000
14K5	WARO MOUNTAIN #2	25	15N	62E	7875

### Central Great Basin

18M2	CAMPITO MTN (CAL.)	19	55	35E	10200
18M5a	CHICTOVICH FLAT	32	25	34E	10500
15N2	CLARK CANYON	8	19S	56E	9000
18M1	MONTGOMERY PASS	4	1N	33E	7100
18M3a	PINCHOT CREEK	28	1N	33E	9300
18M4a	PLUTE PASS (CAL.)	33	4S	33E	11700
15N1	TROUGH SPRINGS	23	18S	55E	8500

### Northern Great Basin

19H1	BALO MOUNTAIN	17	45N	21E	6720
20H5	BARBER CREEK	23	39N	16E	6500
20H6	CEGAR PASS	12	43N	14E	7100
18G6a	DENIO CREEK (OREG.)	14	41S	34E	6000
18H1	DISASTER PEAK	8	47N	34E	6500
20H3a	OISMAL SWAMP (CAL.)	31	48N	22E	7000
20H7	EAGLE PEAK	35	40N	15E	7200
19H3	49-MTN	7	42N	19E	8000
19H2	HAYS CANYON	1	39N	18E	6400
19H4a	LITTLE BALLY MTN	8	45N	19E	6000
17G5a	OREGON CANYON (OREG.)	9	40S	40E	7240
17H6a	QUINN RIDGE	9	47N	41E	6300
20H4	RESERVATION CREEK	12	46N	15E	5900
18G5a	TROUT CREEK (OREG.)	10	41S	38E	7800

NUMBER NAME SEC. TWP. RGE. ELEV.

## Lake Tahoe

19L14	DAGGETTS PASS	19	13N	19E	7350
20L5	ECHO SUMMIT (CAL.)	6	11N	18E	7450
19L2	FREEL BENCH (CAL.)	36	12N	18E	7300
19K6	GLENBROOK #2	13	14N	18E	6900
19L3M	HAGANS MEADOW (CAL.)	36	12N	18E	8000
20L4	LAKE LUCILLE (CAL.)	28	12N	17E	8200
19K4M	MARLETTE LAKE	13	15N	18E	8000
20L3	RICHARDSONS #2 (CAL.)	6	12N	18E	6500
20L1	RUBICON #1 (CAL.)	6	13N	17E	8100
20L2	RUBICON #2 (CAL.)	6	13N	17E	7500
20K16	TAHOE CITY (CAL.)	6	15N	17E	6250
19L1	UPPER TRUCKEE (CAL.)	21	12N	18E	6400
20K17M	WARO CREEK (CAL.)	21	15N	16E	7000

## Truckee River

20K14	BOCA #2 (CAL.)	28	18N	17E	5900
20K22	BROCKWAY SUMMIT (CAL.)	3	17N	16E	7100
29K21	DONNER PARK #2 (CAL.)	18	17N	16E	6000
20K10*	DONNER SUMMIT (CAL.)	25	17N	14E	6900
20K7*	FOROYCE LAKE (CAL.)	34	18N	13E	6500
20K8	FURNACE FLAT (CAL.)	10	17N	13E	6700
20K4M	INDEPENDENCE CAMP (CAL.)	34	19N	15E	7000
20K3	INDEPENDENCE CREEK (CAL.)	14	19N	15E	6500
20K5	INDEPENDENCE LAKE (CAL.)	9	18N	15E	8450
19K3	LITTLE VALLEY	17	16N	19E	6300
19K2	MT. ROSE	7	17N	19E	9000
20K6	SAGE HEN CREEK (CAL.)	7	18N	16E	6500
20K19	SOUAW VALLEY #2 (CAL.)	6	15N	16E	7500
20K13M	TRUCKEE #2 (CAL.)	22	17N	16E	6400
20K2	WEBBER LAKE (CAL.)	29	19N	14E	7000
20K1*	WEBBER PEAK (CAL.)	30	19N	14E	8000

## Carson River

19L5	BLUE LAKES (CAL.)	30	9N	19E	8000
19L4	CARSON PASS, UPPER (CAL.)	22	10N	18E	8600
19K5	CLEAR CREEK	6	14N	19E	7300
19L19a	EBBETS PASS (CAL.)	17	8N	20E	8700
19L6A	POISON FLAT (CAL.)	25	8N	21E	7900
19L16a	UPPER FISH VALLEY (CAL.)	18	7N	22E	8050
19L20a	WOLF CREEK	35	8N	20E	8000
19L18a	WET MEADOWS LAKE (CAL.)	26	9N	19E	8100

## Walker River

19L11	BUCKEYE FORKS (CAL.)	20	4N	23E	8500
19L10	BUCKEYE ROUGHS (CAL.)	15	4N	23E	7900
19L12A	CENTER MOUNTAIN (CAL.)	4	3N	23E	9400
18L1	LAPON MEADOW	36	8N	28E	9000
19L8	LEAVITT MEADOWS (CAL.)	4	5N	22E	7200
19L17a	LOBDELL LAKE	20	7N	24E	9200
18L2	MT. GRANT	23	8N	28E	9000
19L7M	SONORA PASS (CAL.)	1	5N	21E	8800
19M1*	TIOGA PASS (CAL.)	30	1N	25E	9900
19L13M	VIRGINIA LAKES (CAL.)	5	2N	25E	9500
19L9	WILLOW FLAT (CAL.)	21	5N	23E	8250

## Colorado

### Lower Colorado River

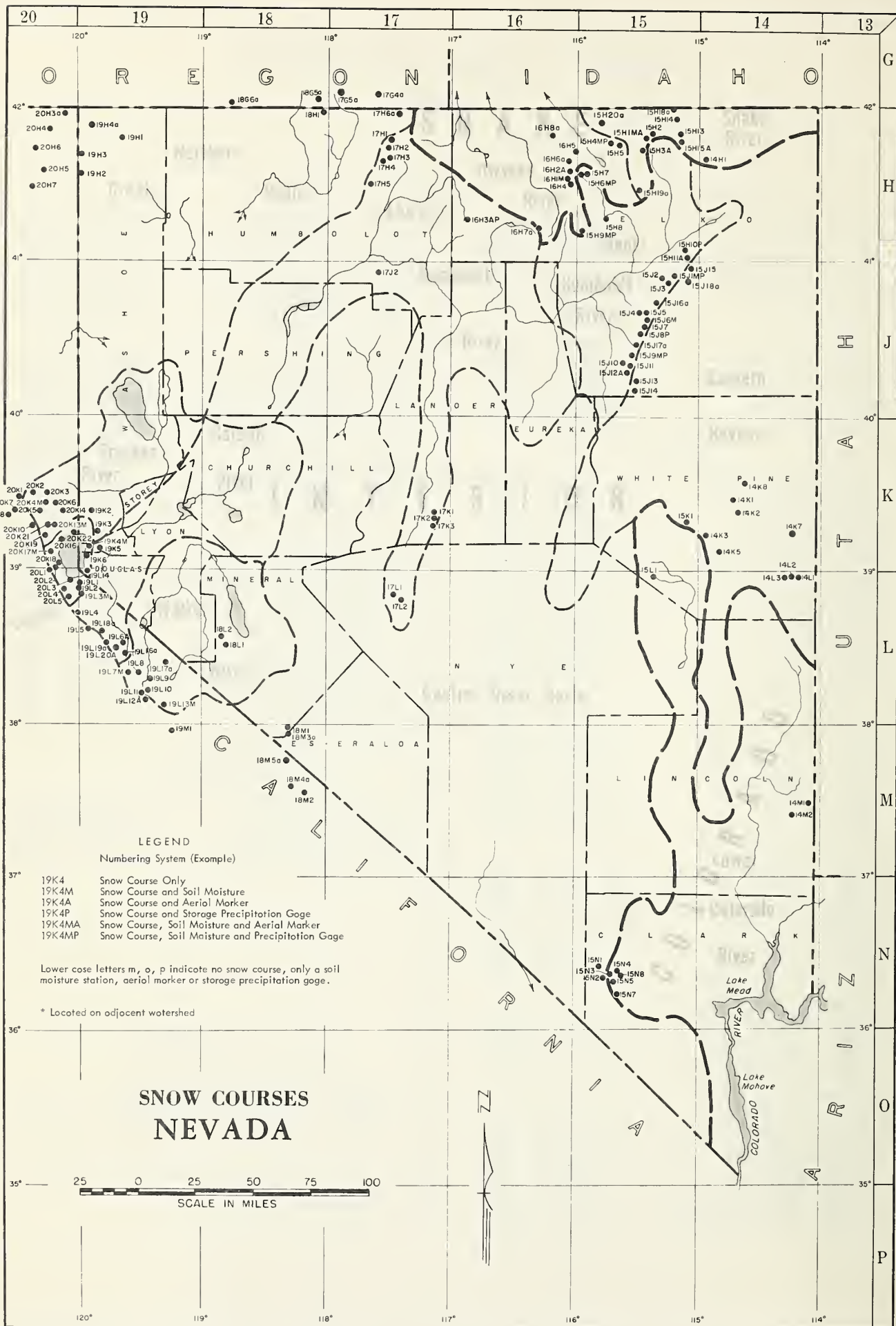
15N5	KYLE CANYON	27	19S	56E	8200
15N4	LEE CANYON #1	10	19S	56E	8400
15N3	LEE CANYON #2	9	19S	56E	9200
15N8	LEE CANYON #3	10	19S	56E	8500
14M1	MATHEW CANYON	10	6S	70E	6000
14M2	PINE CANYON	23	6S	69E	6200
15N7	RAINBOW CANYON #2	6	20S	57E	8100
15L1	WHITE RIVER #1	31	13N	59E	7400

LEGEND  
NUMBERING SYSTEM (EXAMPLE)

19K4	SNOW COURSE ONLY
19K4M	SNOW COURSE AND 50IL MOISTURE
19K4A	SNOW COURSE AND AERIAL MARKER
19K4P	SNOW COURSE AND STORAGE PRECIPITATION GAGE
19K4MA	SNOW COURSE, 50IL MOISTURE AND AERIAL MARKER
19K4MP	SNOW COURSE, 50IL MOISTURE AND PRECIPITATION GAGE

LOWER CASE LETTERS m, a, p, INDICATE NO SNOW COURSE, ONLY A SOIL MOISTURE STATION, AERIAL MARKER OR STORAGE PRECIPITATION GAGE.

\* LOCATED ON ADJACENT WATERSHED





WATER SUPPLY OUTLOOK  
FOR NEVADA

January 1, 1966

\*\*\*\*\*  
\* January 1, 1966 snow surveys at key snow courses in western and north- \*  
\* eastern Nevada indicate that an average to well above average snowpack \*  
\* has already accumulated. Water content of snow in the Sierra is 55 to \*  
\* 75 percent of the April 1 average. Reservoir storage is excellent with \*  
\* many reservoirs being lowered to provide a flood water "cushion" and in \*  
\* anticipation of above average inflow during the spring-summer 1966 snow- \*  
\* melt period. Soil moisture conditions are rated as good to excellent \*  
\* throughout the state. If normal storm conditions prevail the rest of \*  
\* the winter Nevada water users can expect an excellent 1966 irrigation \*  
\* season water supply. \*  
\*\*\*\*\*

A continuous sequence of storms has swept across Nevada since late November. As a result Nevada's mountain snowpack is well established and is in general above average. The Walker, Carson, and Tahoe-Truckee basins have an estimated 150-175 percent of average January 1, 1966 snowpack. This represents 55 to 75 percent of a normal winter's snow water accumulation. With normal snowfall the rest of the winter the Sierra snowpack should approach 125-150 percent of average by April 1.

Snow surveys taken in late December in the Humboldt-Snake basins showed a near normal snowpack. Subsequent storms have increased these reported amounts. Thus the Humboldt-Snake is considered as average or better as of January 1, 1966.

January 1, 1966 reservoir storage in Nevada's seven principal reservoirs, exclusive of Lakes Mead and Mohave is 178 percent of average and 81 percent of usable capacity. Lake Tahoe was at 6,228.05 feet above sea level on January 1, 1966. This is approximately 1 foot below its decreed upper limit. Currently 1000 c.f.s. daily is being released from the lake to maintain adequate storage space. Rye Patch is at capacity (179,000 a.f.) and water is being released to provide storage space.

Soil moisture conditions throughout the state are rated as good to excellent. Southern Nevada has had above average precipitation which has markedly improved soil moisture conditions in that area.

All factors such as snow, soil moisture, and reservoir storage indicate excellent water supply prospects for Nevada during the 1966 irrigation season. If water problems occur they most likely will be those related to overabundance rather than shortages.

Snow surveys on February 1, 1966 will be more extensive. By then the character and extent of the mountain snowpack will be better defined. Seasonal streamflow forecasts will be issued for a few representative stations around the state in the February 1, 1966 Water Supply Outlook report.



NEVADA  
STATUS OF RESERVOIR STORAGE  
January 1, 1966

BASIN AND STREAM	RESERVOIR	USABLE CAPACITY (1000 AF)	USABLE STORAGE - 1000 ACRE FEET				CHANGE SINCE SEPT. 30 1965
			1966	1965	1964	JAN. 1 15-YR. AVE. 1948-62	
Owyhee	Wild Horse	33	16	3*	24	11	-2
Lower Humboldt	Rye Patch	179	179	99	71	53	+4
Colorado	Mohave	1,810	1,738	1,588	1,551	1,250**	+361
Colorado	Mead	27,217	15,233	11,136	16,012	17,944	+525
Tahoe	Tahoe	732	606	454	370	362	-49
Truckee	Boca	41	2	26	9	12	-16
Truckee	Prosser***	30	10	12	9	Storage began 1/30/63	-9
Carson	Lahontan	286	229	161	199	142	+22
West Walker	Topaz	59	48	27	40	23	+7
East Walker	Bridgeport	42	32	19	35	20	+2

\* Reservoir drained during summer 1964 to effect repairs to dam.

\*\* 1950-62

\*\*\* Flood control use allocation of 20,000 A.F. between Nov. 1 and Apr. 10.

TOTAL RESERVOIR STORAGE

Developed from Wild Horse, Rye Patch, Tahoe, Boca, Lahontan, Topaz,  
and Bridgeport Reservoirs in 1000's Acre Feet

MONTH	1960-61	1961-62	1962-63	1963-64	1964-65	1965-66	AVERAGE 1948-62
October 1	253	68	338	702	500	1144	572
January 1	207	59	408	748	789	1112	622
February 1	224	74	579	776	917		670
March 1	255	208	690	774	947		725
April 1	289	316	765	774	1008		776
May 1	302	502	840	818	1104		834

TOTAL USABLE CAPACITY 1,372





January 1, 1966  
NEVADA SNOW SURVEYS

SNOW COVER MEASUREMENTS									
Drainage Basin and Snow Course		Elev.	1966		Past Record Water Content				
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	15-Yr. 1948-62 Average			
						1965	1964	Jan. 1	Apr. 1
<u>SNAKE RIVER</u>									
Bear Creek	7800	Aerial marker flight			8.8a	4.5a	7.3*	21.0	
Goat Creek	8800	delayed due to snow			7.8a	4.2a	6.6*	19.5*	
Hummingbird Springs	8945	storms.			15.2a	4.5a	6.8*	23.0*	
Pole Creek	8330	12/27	26	4.4	11.0	4.9	6.5*	20.2*	
Red Point	7940	Flight delayed			5.8a	3.2a	-	-	
<u>OWYHEE RIVER</u>									
Big Bend	6700	12/28	10	1.7	4.5	2.7	3.5*	10.7	
Gold Creek	6600	12/28	2	0.2	2.1	2.4	2.2*	6.5	
Taylor Canyon	6200	12/29	14	2.3	1.1	1.2	1.8*	3.7	
<u>HUMBOLDT RIVER</u>									
Fry Canyon	6700	12/28	13	2.5	2.5	2.0	3.1*	8.9	
Rodeo Flat	6800	12/28	13	2.4	1.9	2.1	3.4*	8.2	
Tremewan Ranch	5700	12/29	11	1.9	T	0.9	0.4*	0.7	
<u>LAKE TAHOE-TRUCKEE RIVER</u>									
Freel Bench	7300	12/29	38	7.1	9.2	2.8	-	12.1	
Tahoe City	6250	12/30	48	8.4	-	-	-	10.8	
Hagans Meadow	8000	12/29	47	9.8	13.3	4.1	-	18.6	
Richardsons #2	6500	1/2	59	10.9	-	4.4	-	17.9	
Upper Truckee	6400	12/29	38	6.6	5.1	1.8	-	8.4	
<u>CARSON-WALKER RIVERS</u>									
Sonora Pass	8800	12/28	44	14.0	15.0	5.6	-	23.5	
Virginia Lakes	9500	12/28	32	9.8	10.9	4.8	-	17.5	

\* Adjusted 15-year average.

a Aerial snow depth gage reading; water content estimated.

NEVADA SOIL MOISTURE

January 1, 1966

STATION				SOIL MOISTURE (Inches)				
				PROFILE (Inches)		This Year	Summer 1965	Last Year
Name	Elevation	Depth	Capacity	Date				
Big Bend	6700	48	16.7	12/28	14.6	15.7	16.2	15.6
Rodeo Flat	6800	42	11.0	12/28	10.6	10.2	11.0	10.4
Taylor Canyon	6200	48	15.1	12/29	12.4	12.5	15.0	12.6





# Agencies Cooperating in Collecting Data Contained in this Bulletin

## FEDERAL

Agricultural Research Service  
Army  
Bureau of Reclamation  
Fish and Wildlife Service  
Forest Service  
Geological Survey  
Navy  
Soil Conservation Service  
U.S. District Court - Federal Water Master  
Weather Bureau

## STATE

California Cooperative Snow Surveys  
California Department of Parks and Recreation  
California Department of Water Resources  
Colorado River Commission of Nevada  
Nevada Association of Soil Conservation Districts  
Nevada Cooperative Snow Surveys  
Nevada Department of Conservation & Natural Resources  
    Division of Water Resources  
    Nevada State Forester-Firewarden  
Oregon Cooperative Snow Surveys  
University of Nevada  
White Mountain Research Station, Univ. of California

## PRIVATE

Amalgamated Sugar Company  
Kennecott Copper Corporation  
Nevada Irrigation District  
Owyhee Project North Board of Control  
Owyhee Project South Board of Control  
Pacific Gas & Electric Company  
Pershing County Water Conservation District  
Sierra Pacific Power Company  
Squaw Valley Development Company  
Truckee-Carson Irrigation District  
Virginia City Water Company  
Walker River Irrigation District  
Washoe County Water Conservation District

Other organizations and individuals furnish valuable information for the snow survey reports. Their Cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
ROOM 6 -- 1479 SO. WELLS AVE.  
RENO, NEVADA 89502

OFFICIAL BUSINESS

U. S. DEPARTMENT OF AGRICULTURE  
POSTAGE AND FEES PAID

**FIRST CLASS MAIL**

FEDERAL - STATE - PRIVATE  
**COOPERATIVE SNOW SURVEYS**

Furnishes the basic data  
necessary for forecasting  
water supply for irrigation,  
domestic and municipal water  
supply, hydro-electric power  
generation, navigation,  
mining and industry

*"The Conservation of Water begins  
with the Snow Survey"*

U. S. FOREST SERVICE  
~~CHIEF DIV. OF WATERSHED~~  
RECREATION & RANGE RES.  
WASHINGTON, D. C.